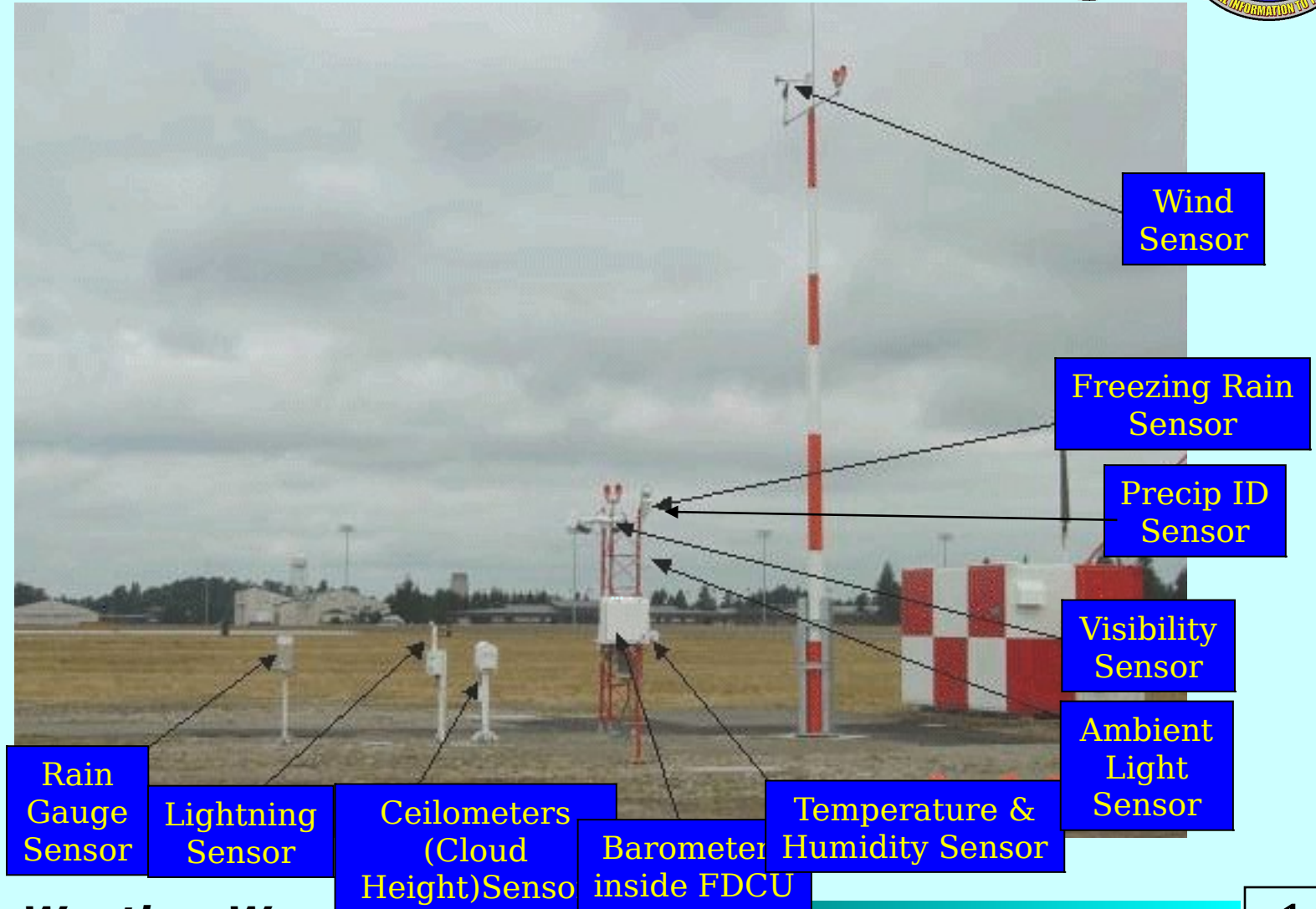


# Primary Sensor Group



# Discontinuity Sensor Group



# FDCU – Field Data Collection Unit



## Support Requirements

- Electrical – 120 VAC, 30 amp dedicated circuit
- Communications – 2-copper pairs 19-24 gauge or fiber optics

# TDAU -Terminal Data Acquisition Unit



## Support Requirements

- Electrical - 120 VAC, 20 amp dedicated circuit within 6 feet of TDAU
- Communications – Punchdown block within 6 feet of TDAU

# OID - Operator Interface Device



## Support Requirements

- Electrical - 4 outlets
- Communications - Direct connected. Otherwise, 2-copper pairs 19-24 gauge or fiber optics



# RLIM - Runway Light Intensity Monitor



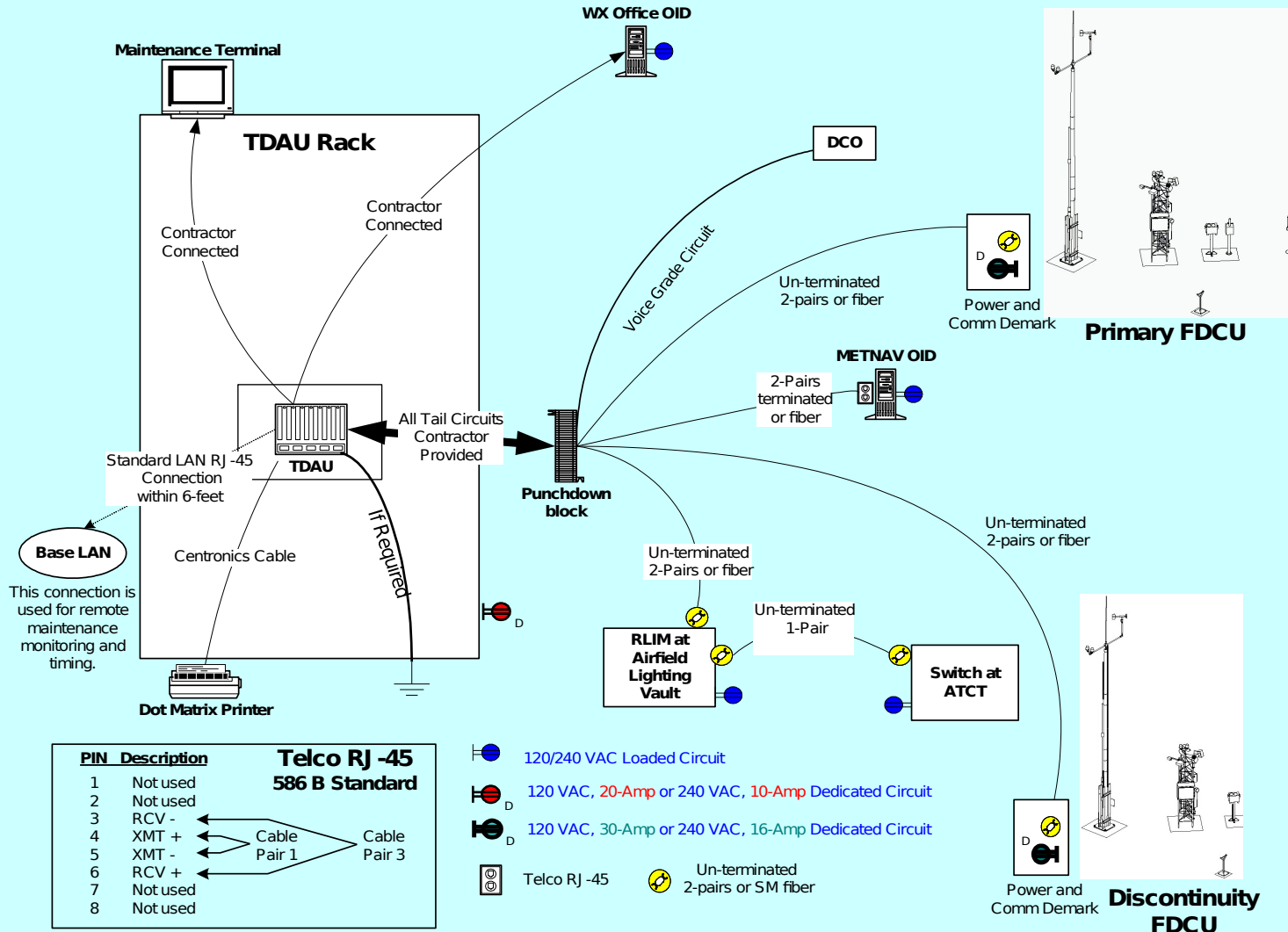
- Integral factor in determining RVR (Runway Visual Range)
- Interfaces with pre-existing airfield electrical control lines and current control regulator (CCR).



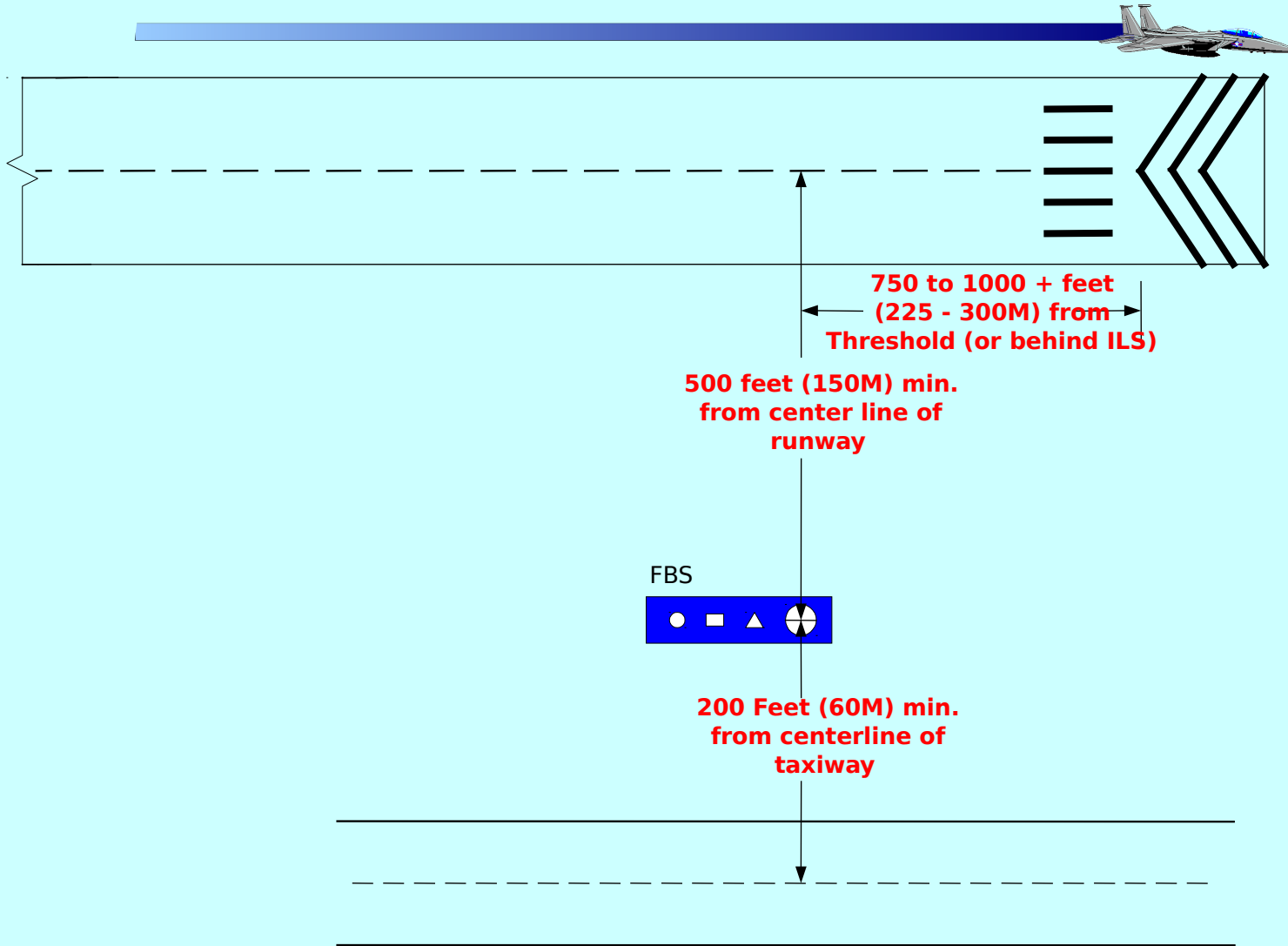
## Support Requirements

- Electrical - covered junction box
- Communications - 2-copper pairs 19-24 gauge or fiber optics

# Typical Communications & Power Requirements



# Siting Criteria





# AN/FMQ-19 References & Guidelines



- Federal Meteorological Handbook No. 1 (FCM-H1-1995)
- Surface Weather Observations (AFMAN 15-111)
- Federal Standard for Siting Meteorological Sensors at Airports (FCM-S4-1994)
- Airfield & Heliport Planning & Design (UFC 3-260-01)
- Certification & Accreditation Documentation (DITSCAP)
- Command, Control, Communications, Computer, & Intelligence (C4I) Support Plan (C4ISP)/Process
- Air Force Certificate of Networthiness (CoN) Guide
- FAA AC 70/7460-1K, Obstruction Marking And Lighting
- FAA AC 150/5300-13, Changes To Airport Design
- Engineering Technical Letter (ETL) 01-20: Guidelines To Airfield Frangibility Zones; dated 29 Nov 01